

Data Path : Z:\HPCHEM1\BNA F\DATA\BF081517\
 Data File : BF097714.D
 Acq On : 16 Aug 2017 2:37
 Operator : SJ/JU
 Sample : I4736-02DL 5X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Manual Integrations
 APPROVED

Sohil
 8/16/2017 6:49:36 PM

Quant Time: Aug 16 07:46:20 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 15 13:25:08 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.78	152	137244	20.00	ng	0.00
21) Naphthalene-d8	8.07	136	532684	20.00	ng	0.00
38) Acenaphthene-d10	9.82	164	218697	20.00	ng	0.00
63) Phenanthrene-d10	11.30	188	339027	20.00	ng	0.00
75) Chrysene-d12	13.94	240	284629	20.00	ng	0.00
86) Perylene-d12	15.37	264	275322	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	135833	15.05	ng	-0.01
7) Phenol-d6	6.40	99	189018	15.42	ng	-0.01
23) Nitrobenzene-d5	7.34	82	107861	11.00	ng	-0.01
41) 2,4,6-Tribromophenol	10.60	330	22516	11.87	ng	-0.01
44) 2-Fluorobiphenyl	9.14	172	167220	11.23	ng	0.00
78) Terphenyl-d14	12.89	244	95244	6.98	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.09	128	62422	2.257	ng	99
51) Acenaphthene	9.85	154	82681	5.665	ng	98
54) Dibenzofuran	10.02	168	108139	5.529	ng	99
57) Fluorene	10.36	166	105968	7.007	ng	96
70) Phenanthrene	11.32	178	186807	10.340	ng	99
71) Anthracene	11.37	178	183959	10.039	ng	98
74) Fluoranthene	12.52	202	703183	37.291	ng	99
77) Pyrene	12.74	202	682462	29.316	ng	99
80) Benzo(a)anthracene	13.93	228	300253	17.601	ng	99
82) Chrysene	13.96	228	277242	16.337	ng	98
85) Indeno(1,2,3-cd)pyrene	16.76	276	108726	8.710	ng	# 89
87) Benzo(b)fluoranthene	14.96	252	335844m	19.352	ng	
88) Benzo(k)fluoranthene	14.98	252	114408m	7.017	ng	
89) Benzo(a)pyrene	15.31	252	256394	16.689	ng	98
90) Dibenzo(a,h)anthracene	16.77	278	29755	2.379	ng	# 91
91) Benzo(g,h,i)perylene	17.18	276	94765	7.261	ng	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

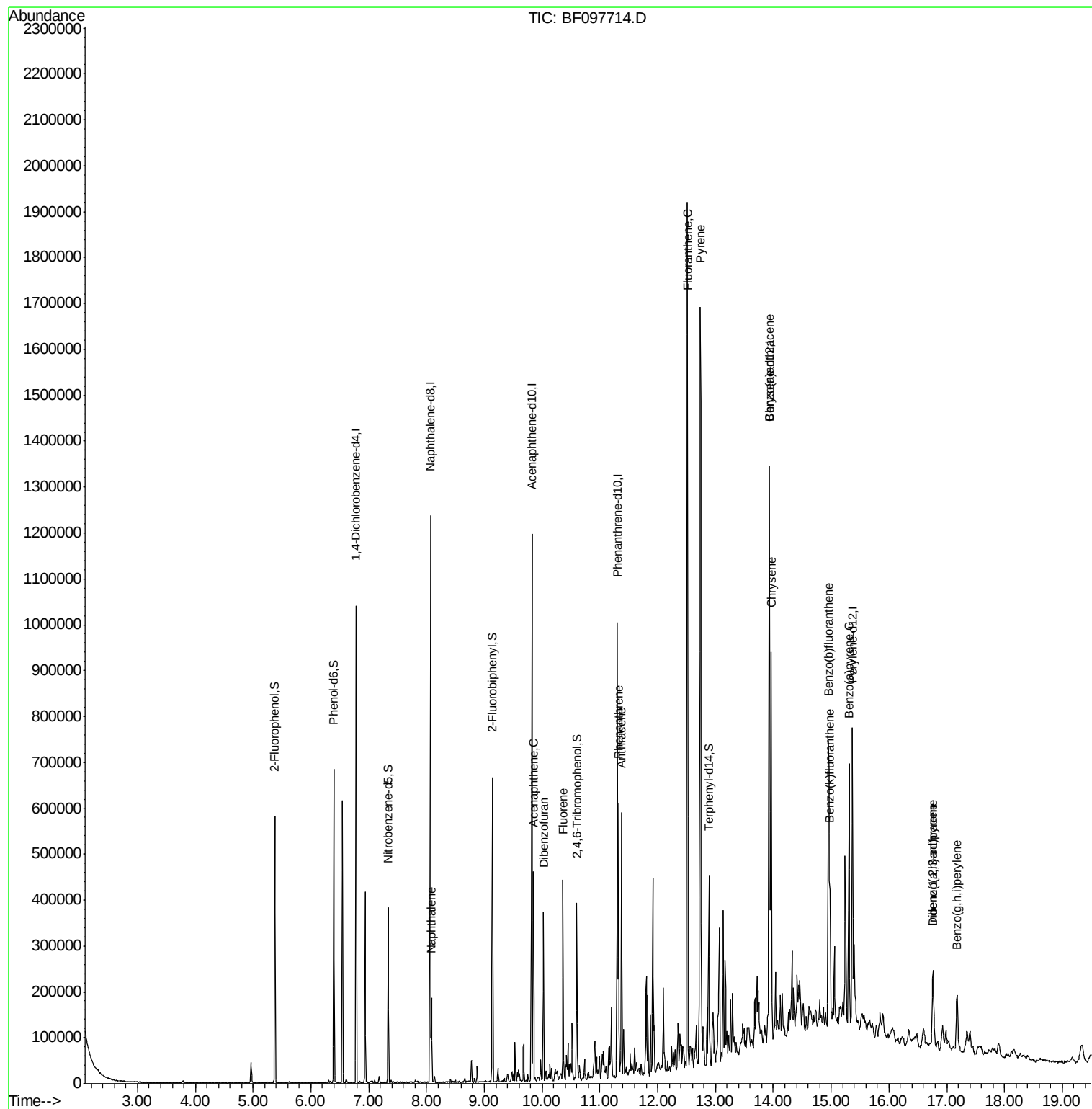
Data Path : Z:\HPCHEM1\BNA F\DATA\BF081517\
Data File : BF097714.D
Acq On : 16 Aug 2017 2:37
Operator : SJ/JU
Sample : I4736-02DL 5X
Misc :
ALS Vial : 27 Sample Multiplier: 1

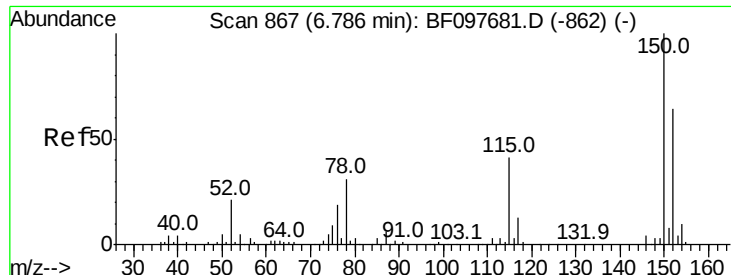
Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Manual Integrations
APPROVED

Sohil
8/16/2017 6:49:36 PM

Quant Time: Aug 16 07:46:20 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Aug 15 13:25:08 2017
Response via : Initial Calibration





#1

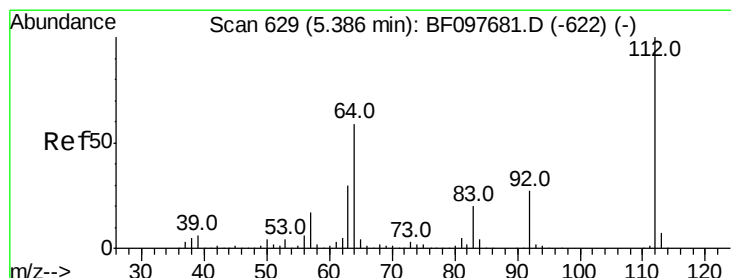
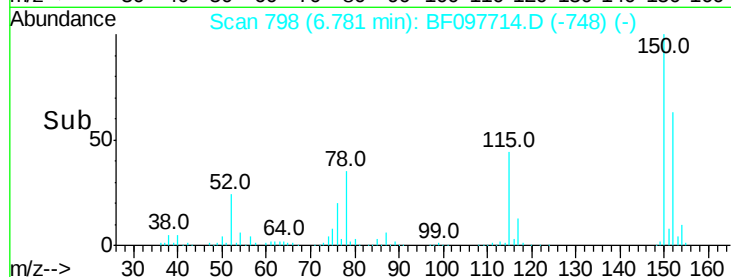
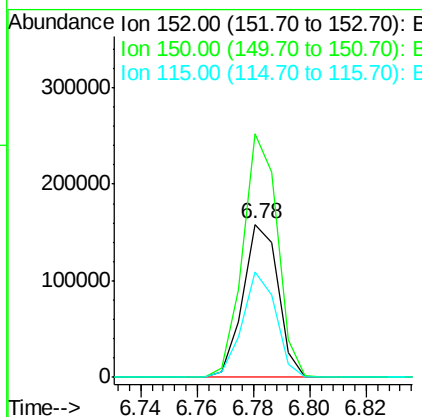
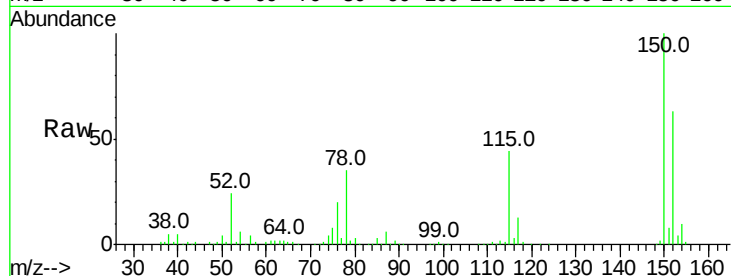
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.78 min Scan# 798
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.3	126.2	189.2
115	69.3	52.2	78.2

Manual Integrations
 APPROVED

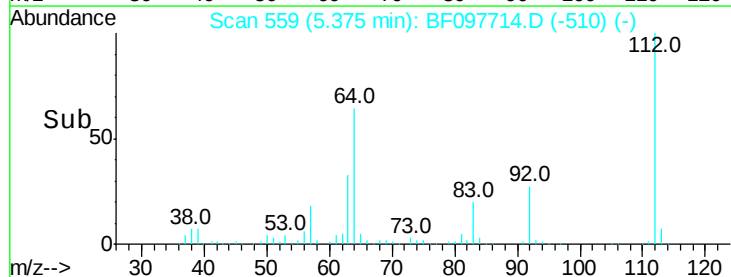
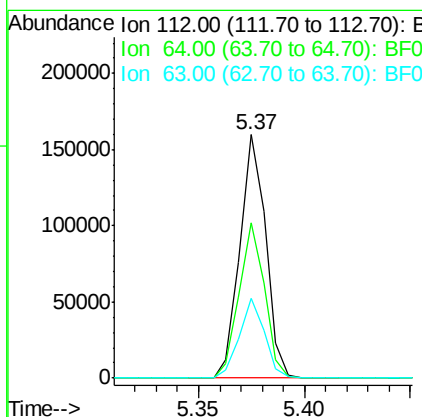
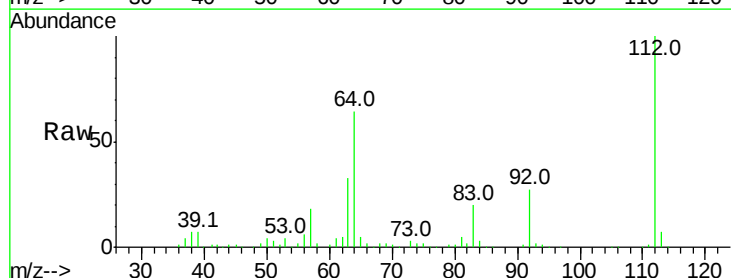
Sohil
 8/16/2017 6:49:36 PM

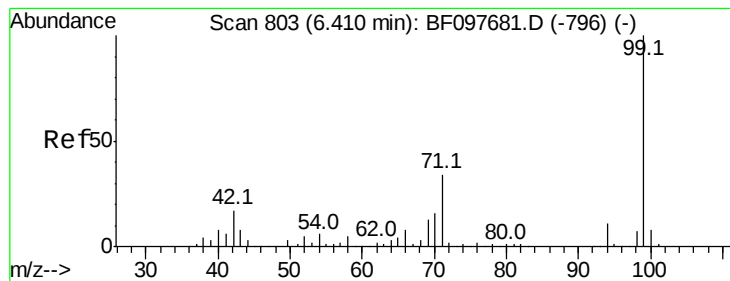


#5

2-Fluorophenol
 Concen: 15.054 ng
 RT: 5.37 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.7	46.0	69.0
63	33.0	23.4	35.0





#7

Phenol-d6

Concen: 15.418 ng

RT: 6.40 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Instrument :

BNA_F

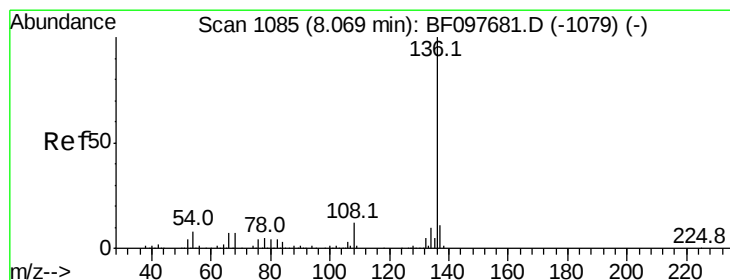
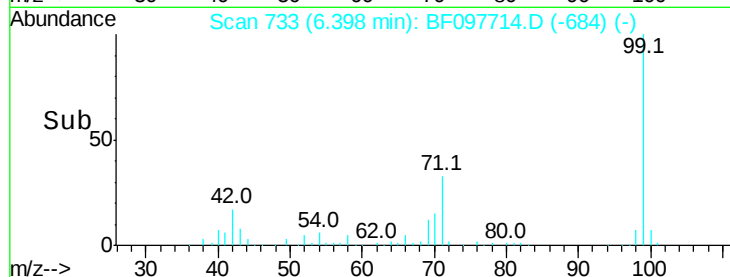
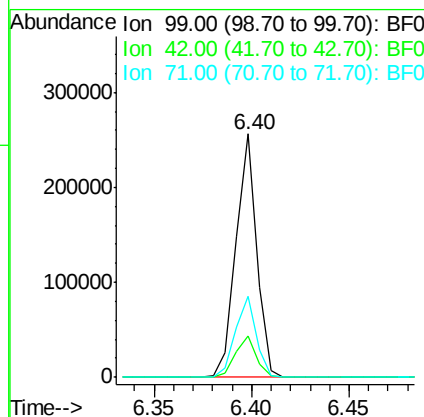
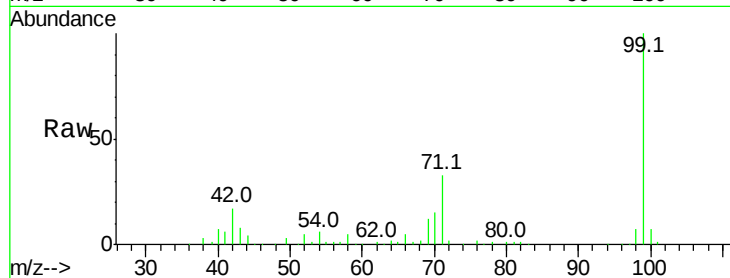
ClientSampleId :

SB-32-COMPDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		189018		
42	16.8	13.5	20.3		
71	33.1	24.5	36.7		

Manual Integrations
APPROVED

Sohil
8/16/2017 6:49:36 PM



#21

Naphthalene-d8

Concen: 20.000 ng

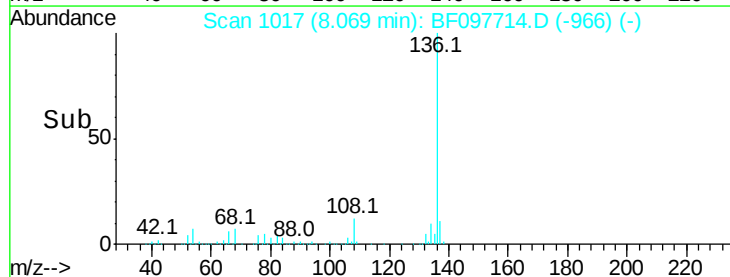
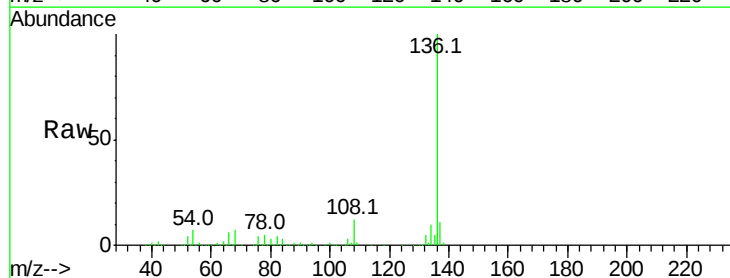
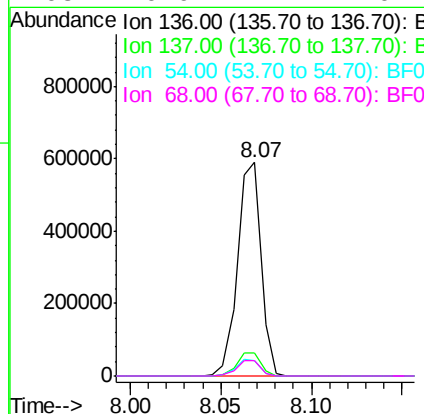
RT: 8.07 min Scan# 1017

Delta R.T. 0.00 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		532684		
137	10.9	8.5	12.7		
54	7.0	4.9	7.3		
68	6.9	4.1	6.1#		





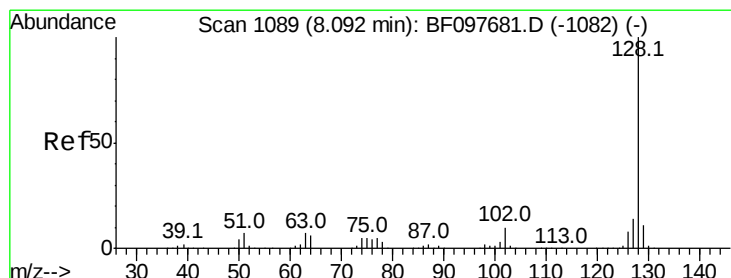
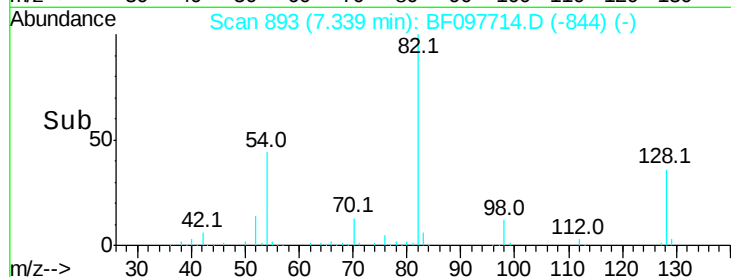
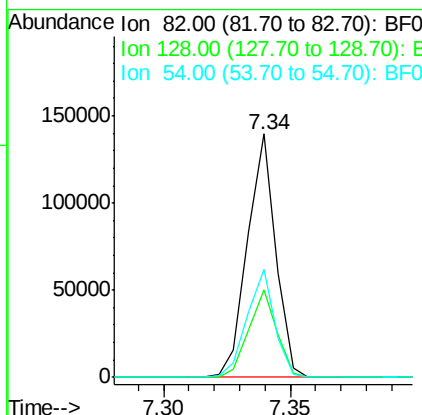
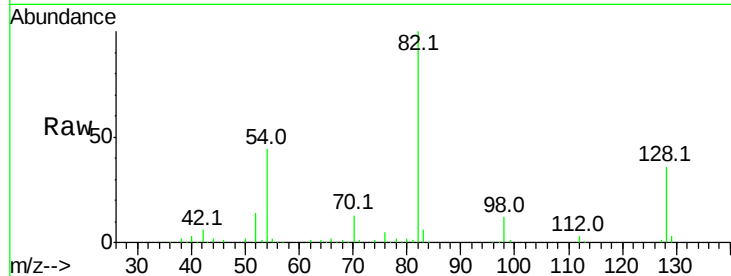
#23
Nitrobenzene-d5
Concen: 11.000 ng
RT: 7.34 min Scan# 893
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Resp Lower	Upper
82	100		
128	35.8	34.0	51.0
54	44.1	42.2	63.2

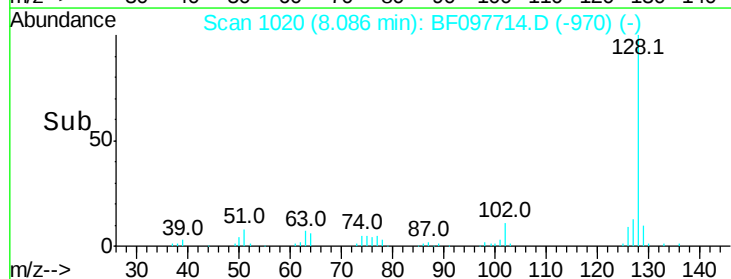
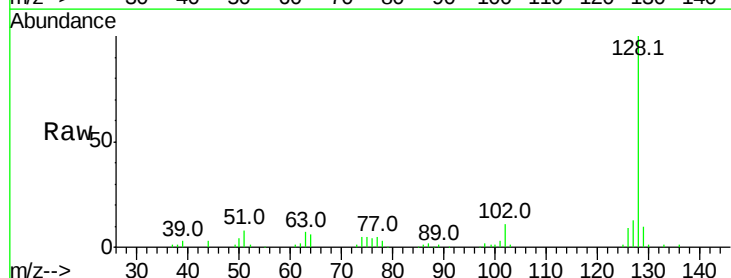
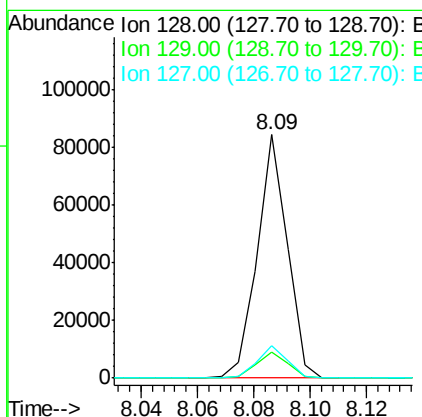
Manual Integrations
APPROVED

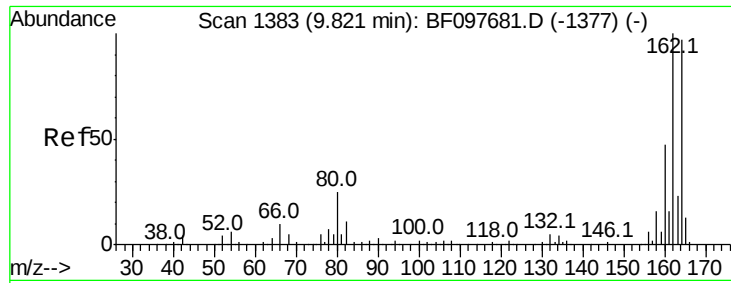
Sohil
8/16/2017 6:49:36 PM



#31
Naphthalene
Concen: 2.257 ng
RT: 8.09 min Scan# 1020
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	10.5	9.0	13.6
127	13.4	10.8	16.2





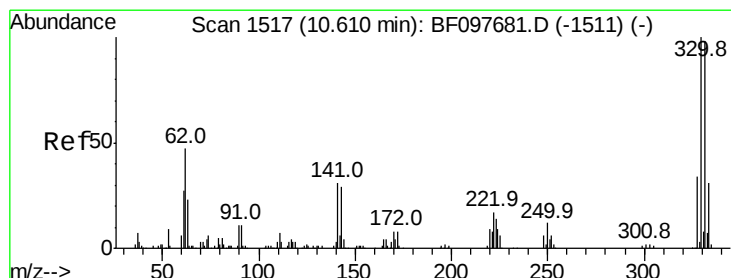
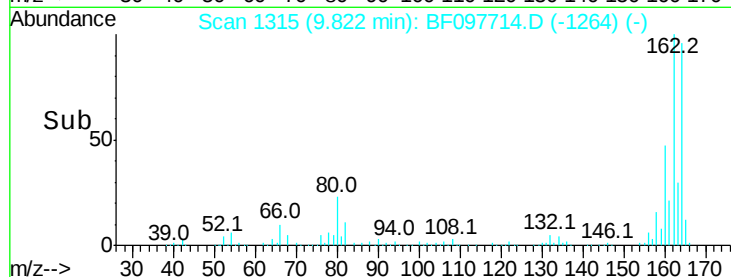
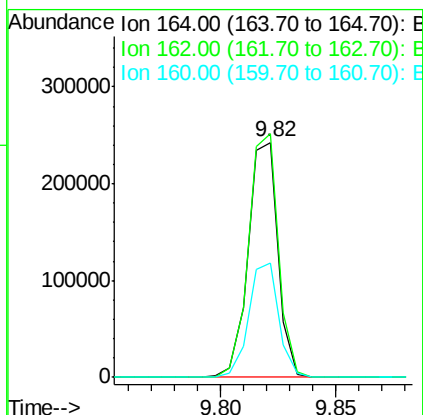
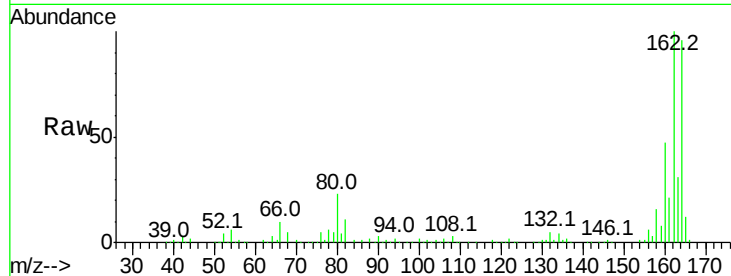
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.82 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.7	82.6	123.8
160	48.9	36.2	54.2

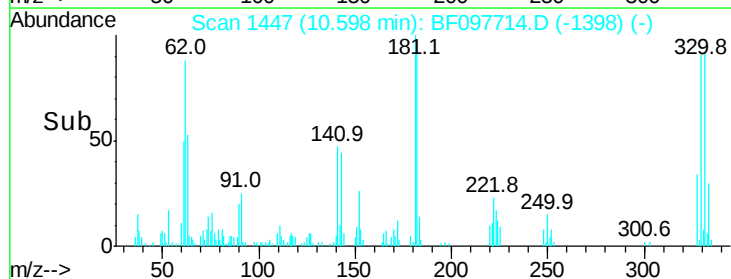
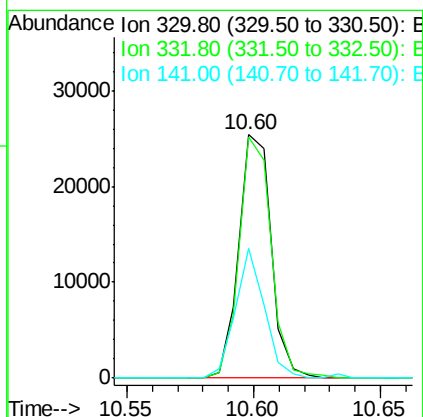
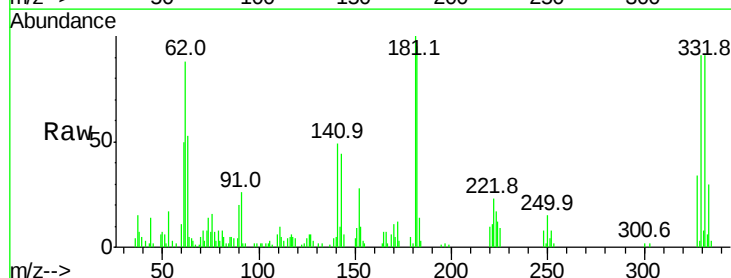
Manual Integrations
 APPROVED

Sohil
 8/16/2017 6:49:36 PM



#41
 2,4,6-Tribromophenol
 Concen: 11.866 ng
 RT: 10.60 min Scan# 1447
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.9	76.6	115.0
141	47.6	31.4	47.2





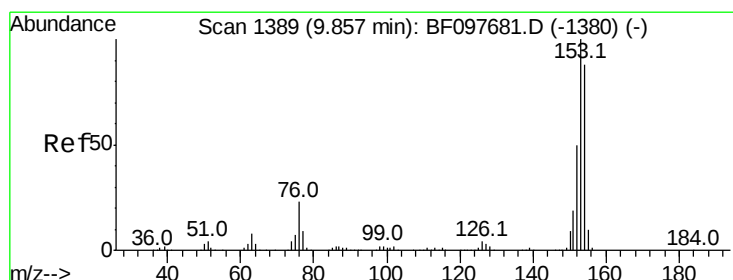
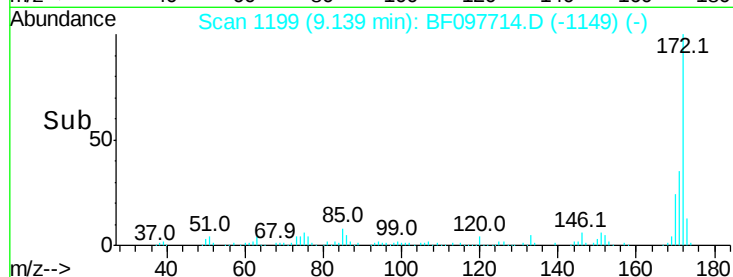
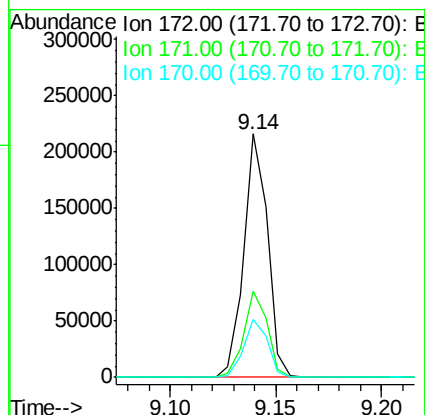
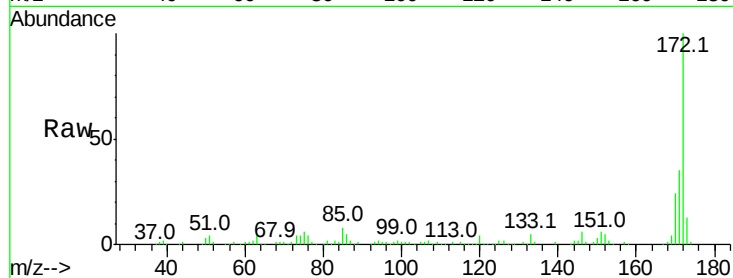
#44
 2-Fluorobiphenyl
 Concen: 11.234 ng
 RT: 9.14 min Scan# 1199
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ratio	Resp Lower	Upper
172	100		
171	35.4	29.6	44.4
170	23.6	19.8	29.8

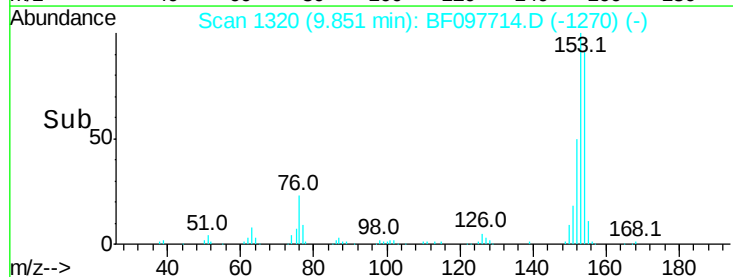
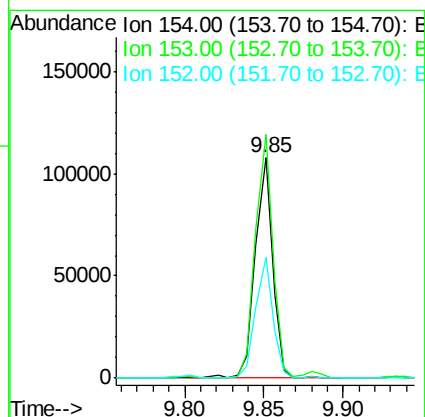
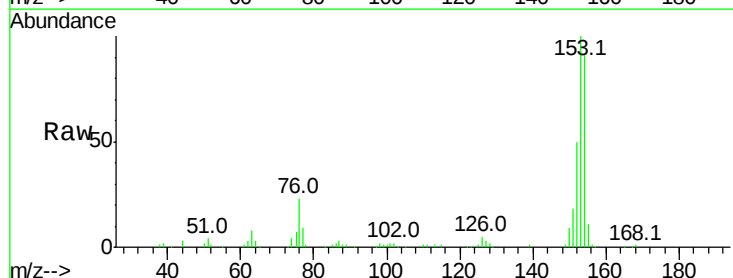
Manual Integrations
 APPROVED

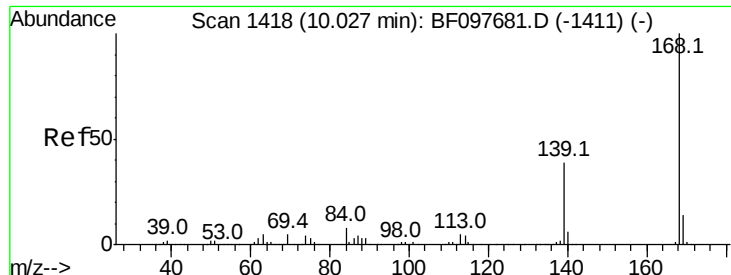
Sohil
 8/16/2017 6:49:36 PM



#51
 Acenaphthene
 Concen: 5.665 ng
 RT: 9.85 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	110.4	90.5	135.7
152	54.7	43.6	65.4





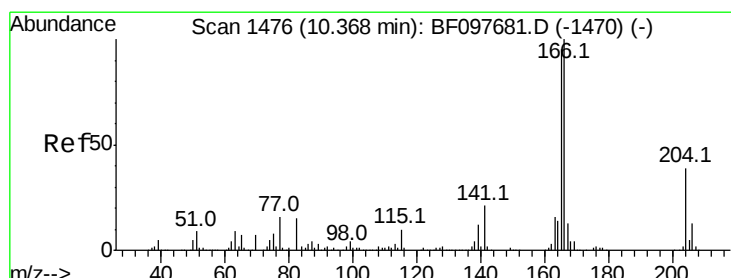
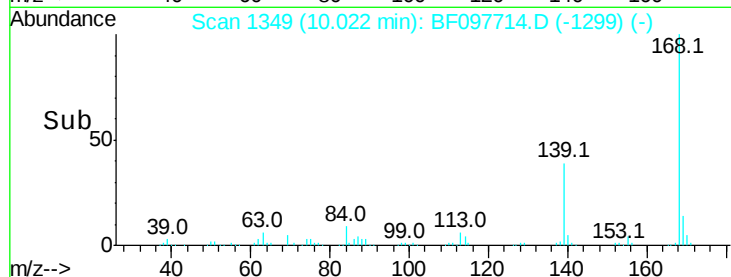
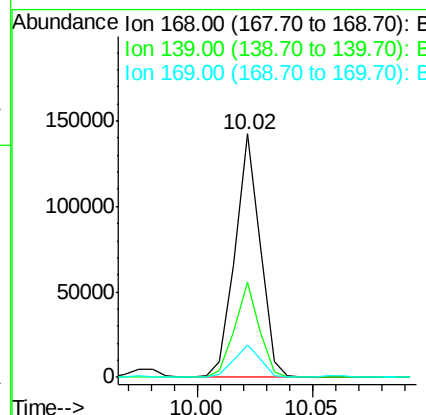
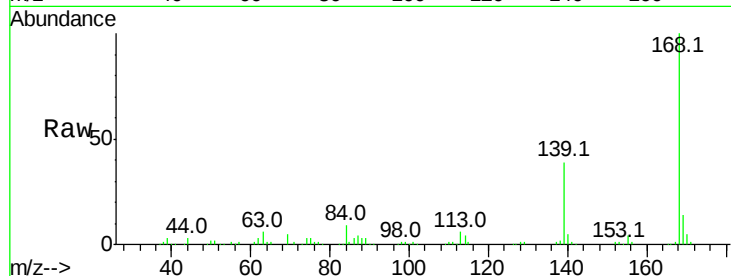
#54
Dibenzenofuran
Concen: 5.529 ng
RT: 10.02 min Scan# 1349
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	38.9		30.6	45.8
169	13.5		10.8	16.2

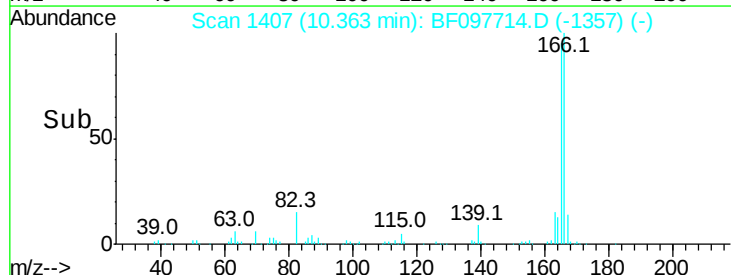
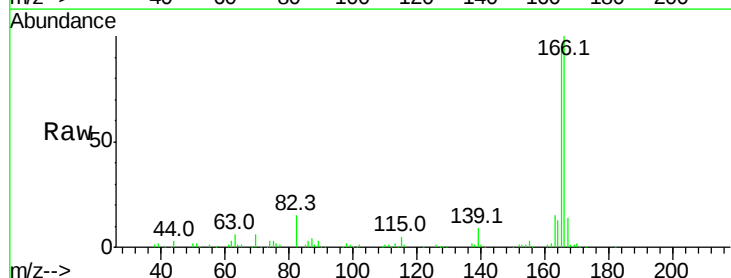
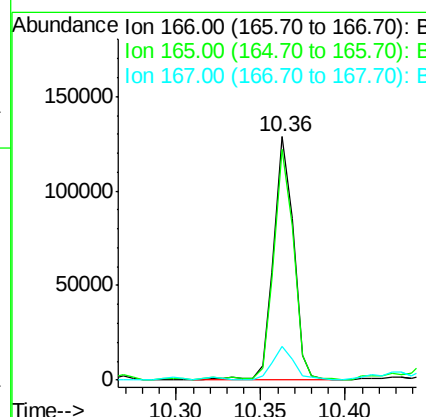
Manual Integrations
APPROVED

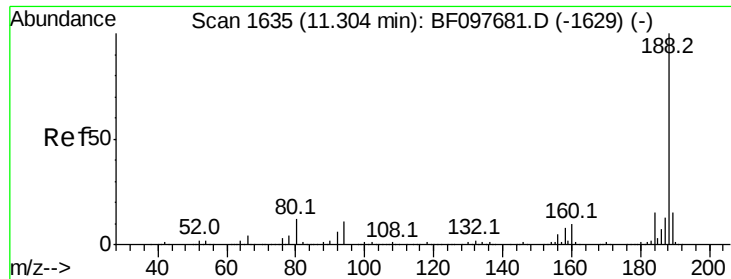
Sohil
8/16/2017 6:49:36 PM



#57
Fluorene
Concen: 7.007 ng
RT: 10.36 min Scan# 1407
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	94.6		78.8	118.2
167	13.8		10.6	16.0





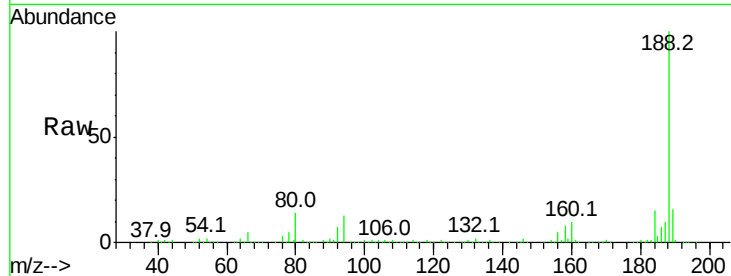
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.30 min Scan# 1566
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

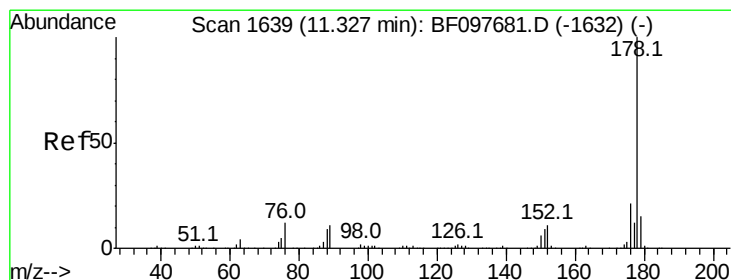
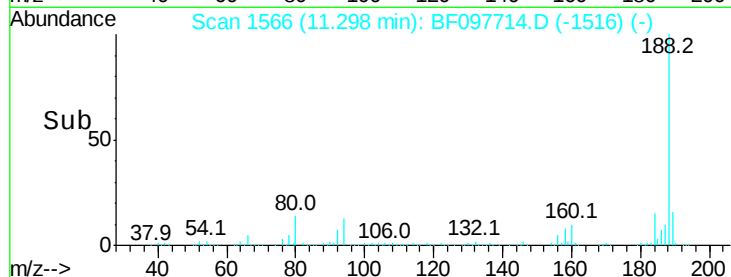
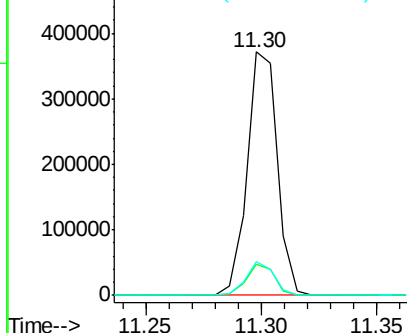
Tot Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	12.7	9.4	14.2
80	13.9	10.2	15.2

Manual Integrations
APPROVED

Sohil
8/16/2017 6:49:36 PM

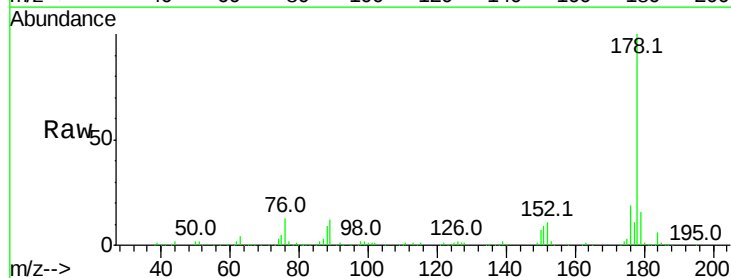


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

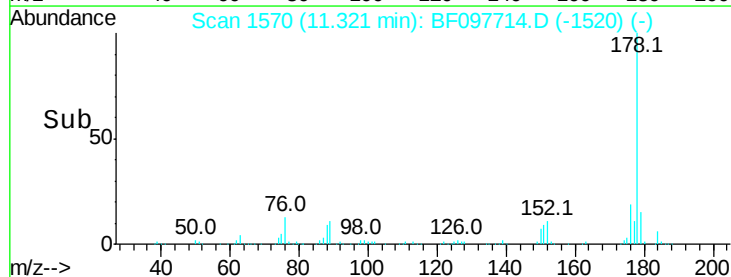
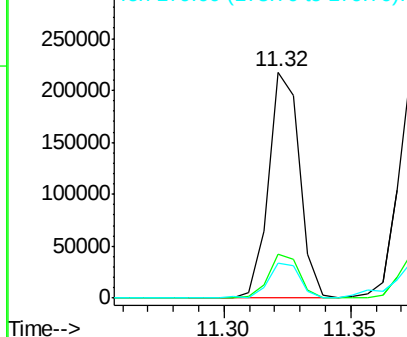


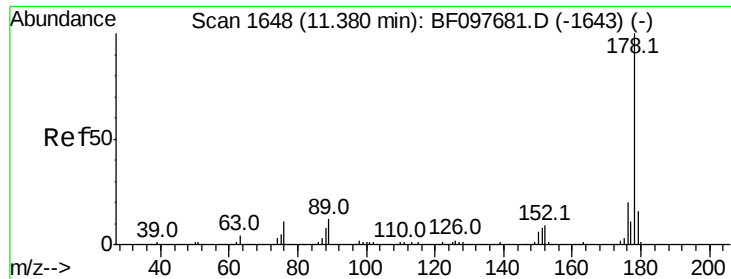
#70
Phenanthrene
Concen: 10.340 ng
RT: 11.32 min Scan# 1570
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.4	16.2	24.4
179	15.7	12.6	19.0



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





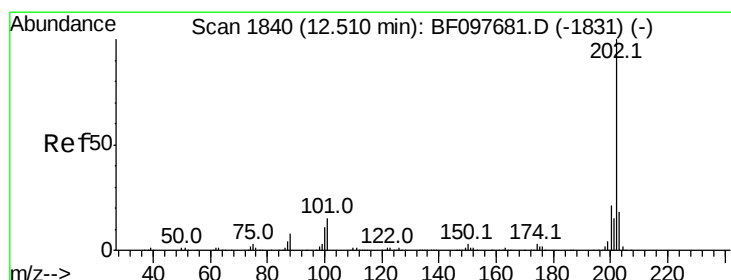
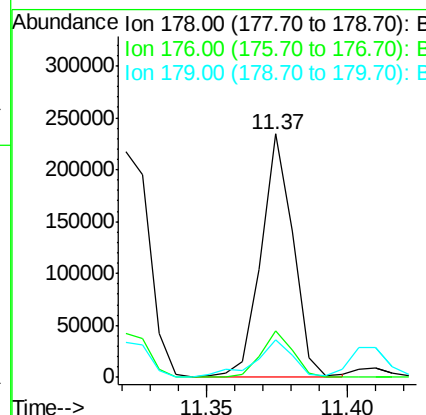
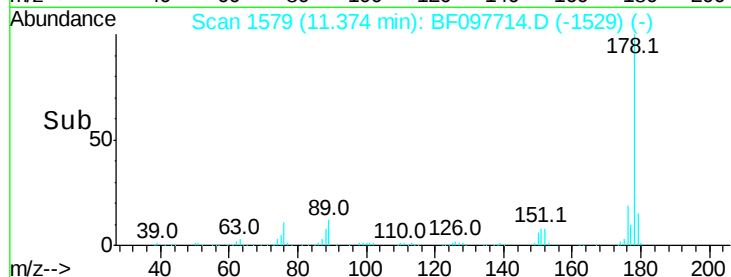
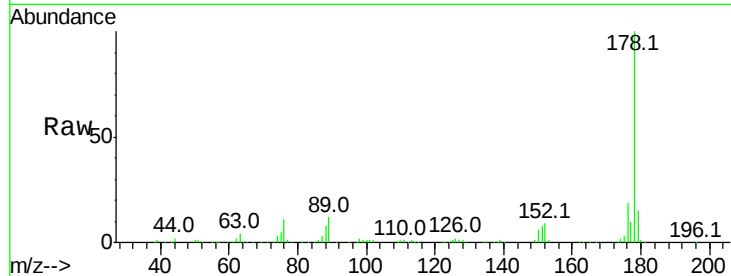
#71
 Anthracene
 Concen: 10.039 ng
 RT: 11.37 min Scan# 1579
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	15.3	12.7	19.1

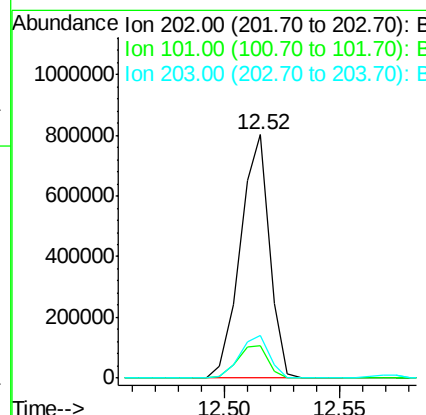
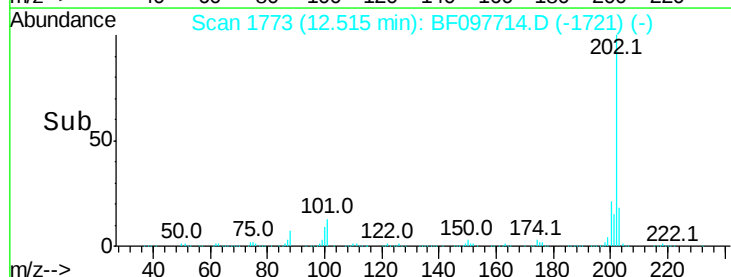
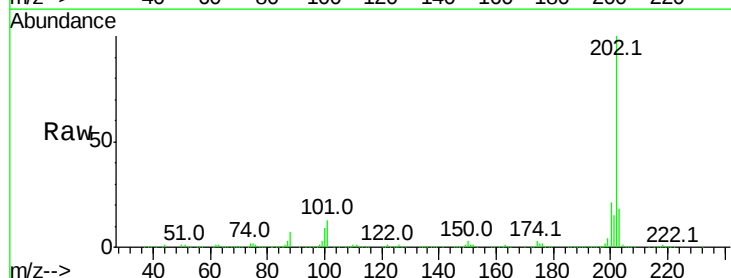
Manual Integrations
 APPROVED

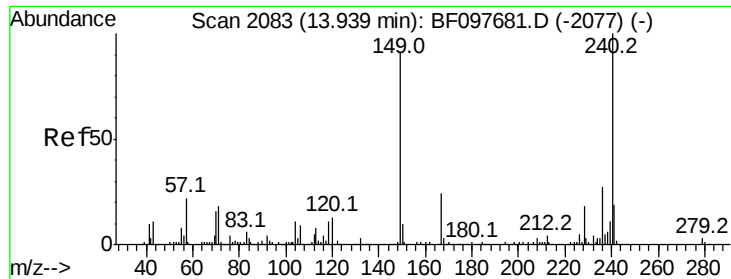
Sohil
 8/16/2017 6:49:36 PM



#74
 Fluoranthene
 Concen: 37.291 ng
 RT: 12.52 min Scan# 1773
 Delta R.T. 0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
202	100		
101	13.1	0.0	33.2
203	17.7	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.94 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Instrument :

BNA_F

ClientSampleId :

SB-32-COMPDL

Tot Ion:240 Resp: 284629

Ion Ratio Lower Upper

240 100

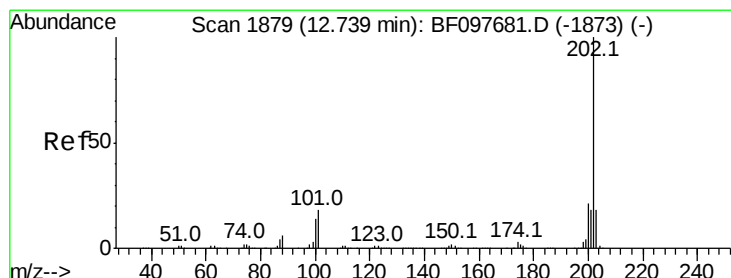
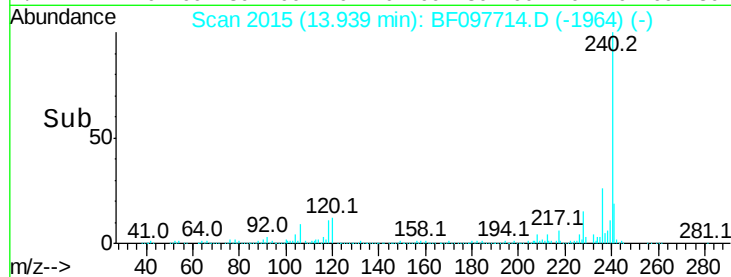
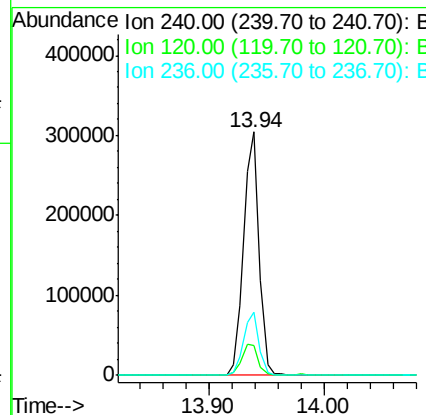
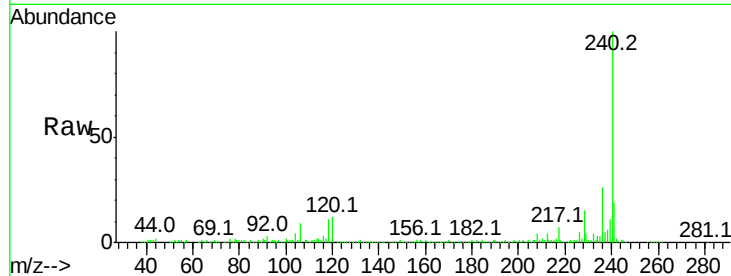
120 12.1 5.8 8.8#

236 26.0 20.5 30.7

Manual Integrations
APPROVED

Sohil

8/16/2017 6:49:36 PM



#77

Pyrene

Concen: 29.316 ng

RT: 12.74 min Scan# 1811

Delta R.T. 0.00 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

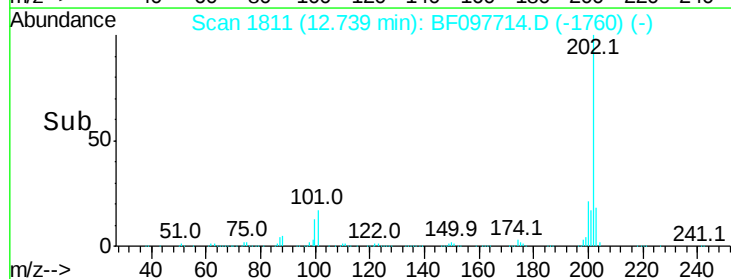
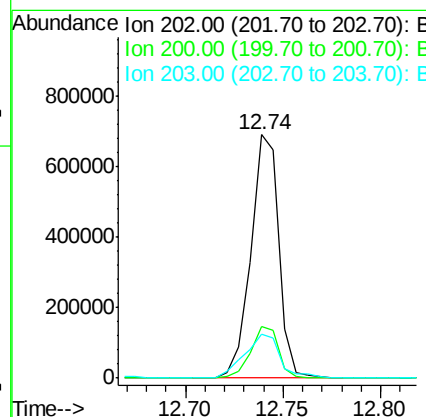
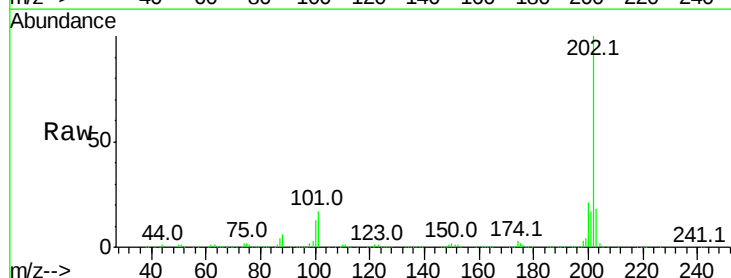
Tgt Ion:202 Resp: 682462

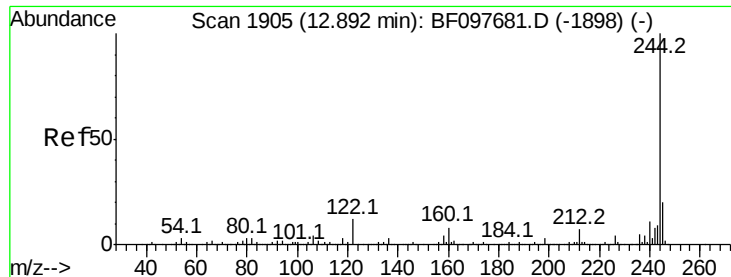
Ion Ratio Lower Upper

202 100

200 21.0 17.6 26.4

203 18.3 14.4 21.6





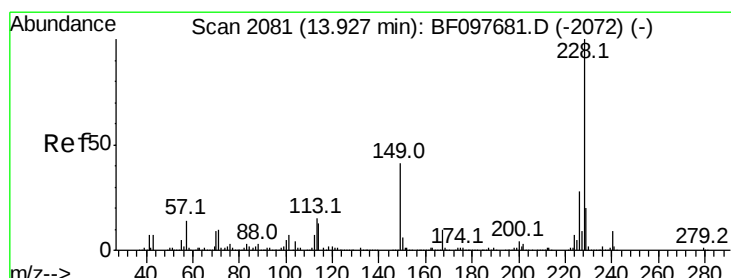
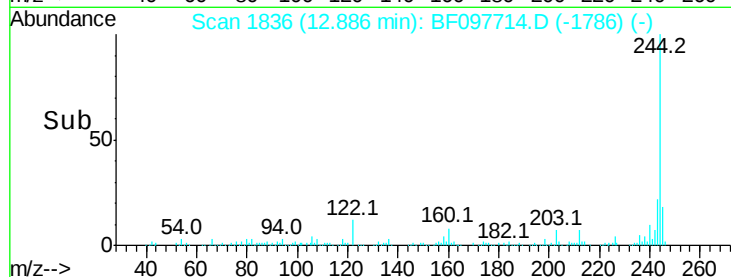
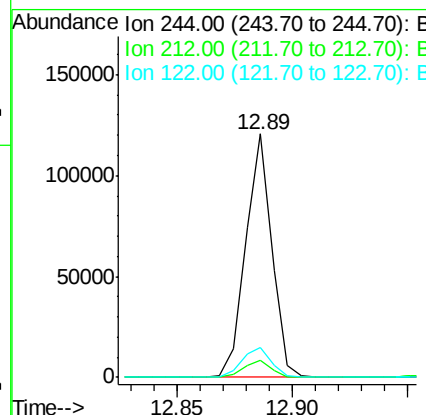
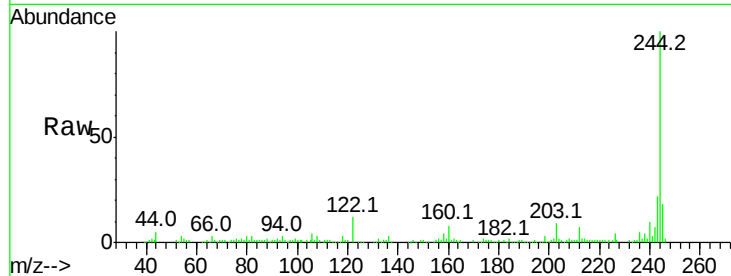
#78
 Terphenyl-d14
 Concen: 6.978 ng
 RT: 12.89 min Scan# 1836
 Delta R.T. -0.01 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Instrument :
 BNA_F
 ClientSampleId :
 SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	12.4	10.3	15.5

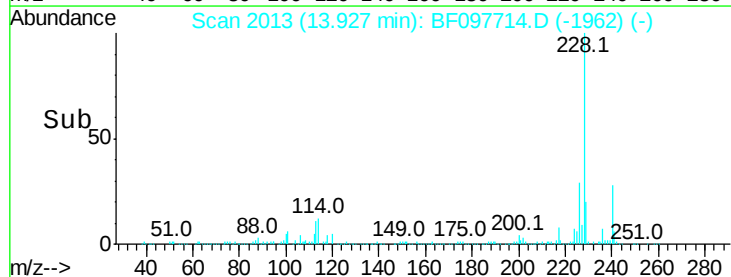
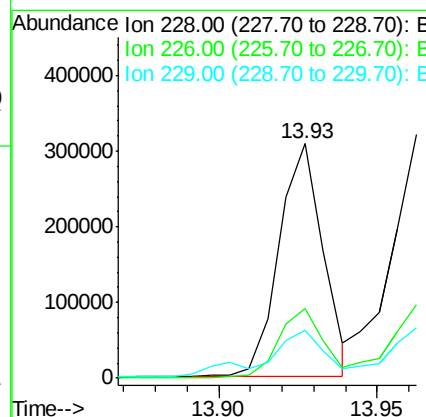
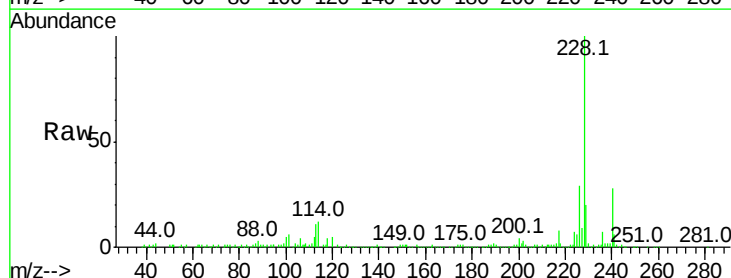
Manual Integrations
 APPROVED

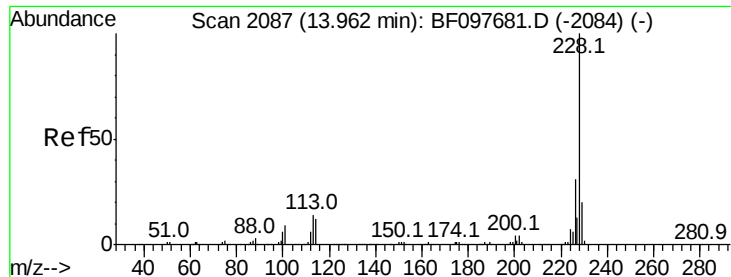
Sohil
 8/16/2017 6:49:36 PM



#80
 Benzo(a)anthracene
 Concen: 17.601 ng
 RT: 13.93 min Scan# 2013
 Delta R.T. 0.00 min
 Lab File: BF097714.D
 Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	20.5	16.3	24.5





#82

Chrysene

Concen: 16.337 ng

RT: 13.96 min Scan# 2019

Delta R.T. 0.00 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Instrument :

BNA_F

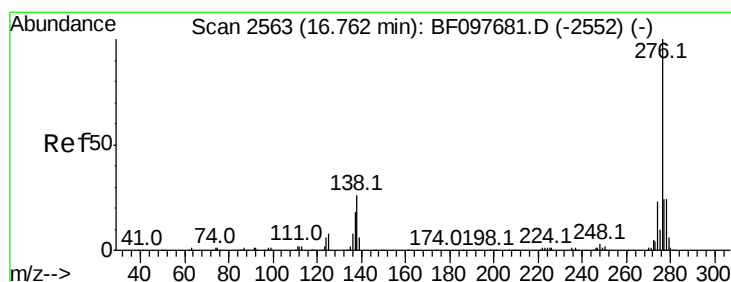
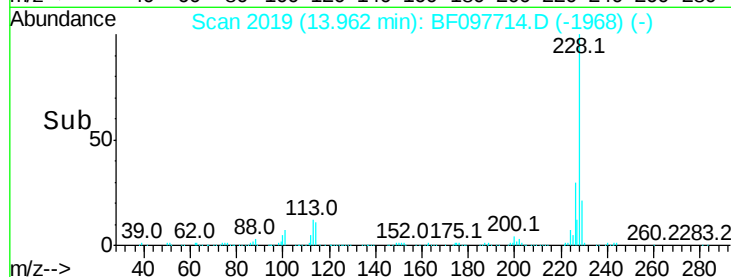
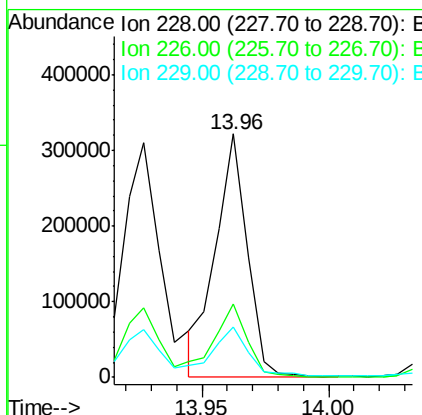
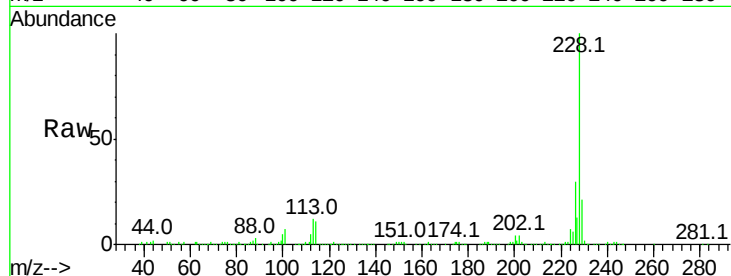
ClientSampleId :

SB-32-COMPDL

Tot Ion:	228	Resp:	277242
Ion Ratio	Lower	Upper	
228	100		
226	30.1	24.9	37.3
229	20.9	15.8	23.6

Manual Integrations
APPROVED

Sohil
8/16/2017 6:49:36 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 8.710 ng

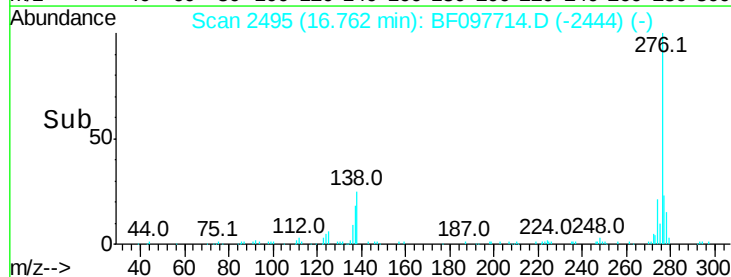
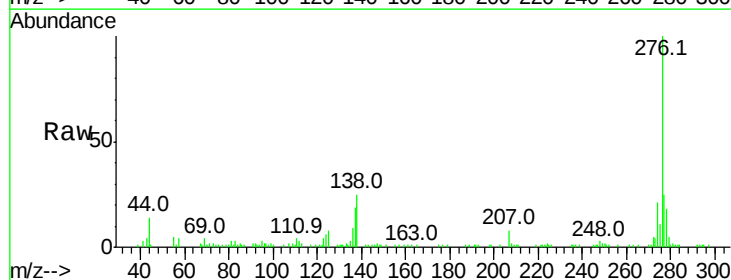
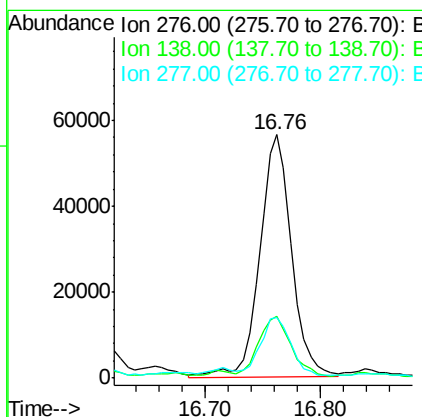
RT: 16.76 min Scan# 2495

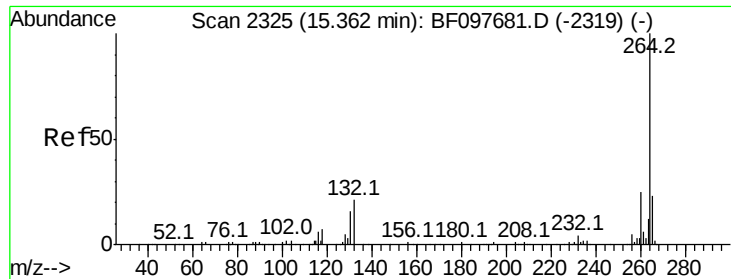
Delta R.T. 0.00 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Tgt Ion:	276	Resp:	108726
Ion Ratio	Lower	Upper	
276	100		
138	25.2	27.8	41.6#
277	23.7	20.2	30.4





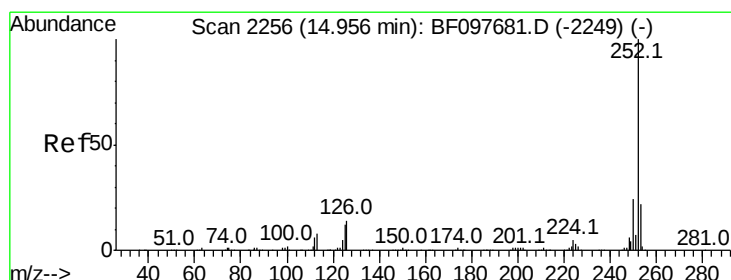
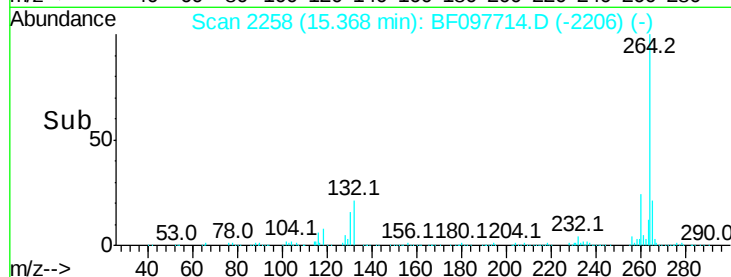
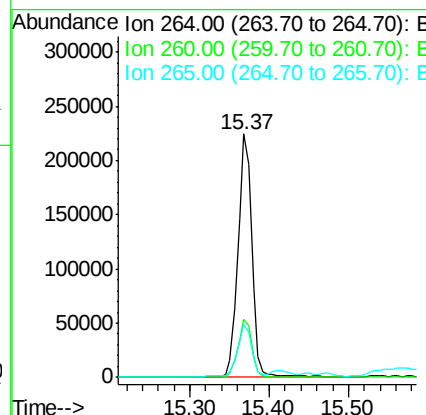
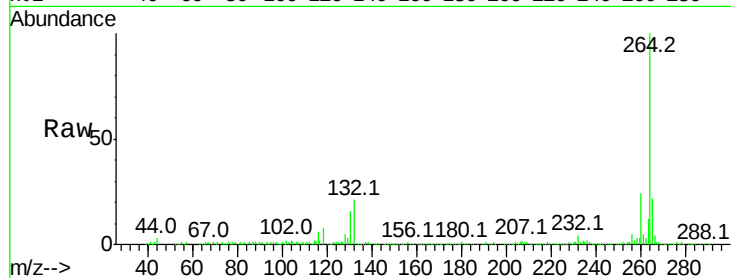
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.37 min Scan# 2258
Delta R.T. 0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Instrument :
BNA_F
ClientSampleId :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.5	29.3
265	21.6	17.2	25.8

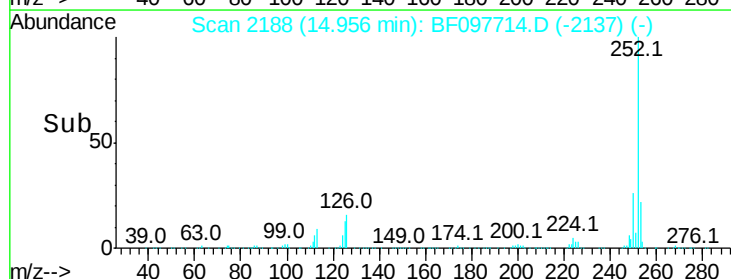
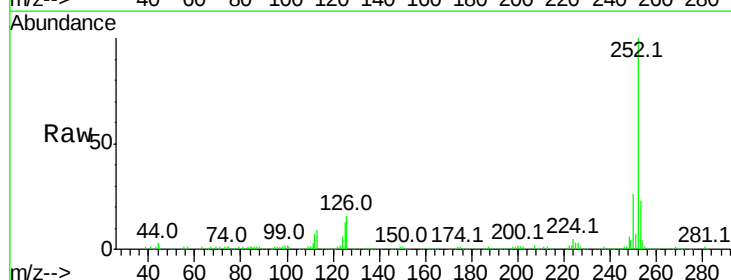
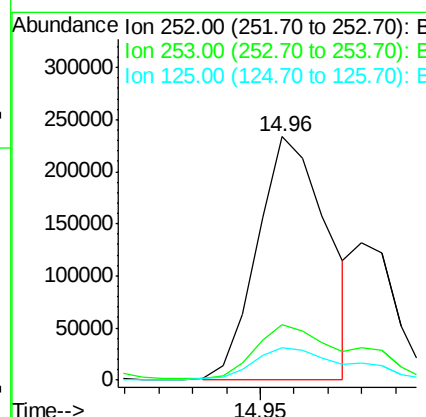
Manual Integrations
APPROVED

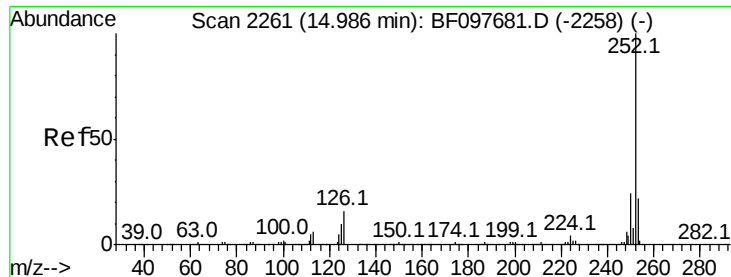
Sohil
8/16/2017 6:49:36 PM



#87
Benzo(b)fluoranthene
Concen: 19.352 ng m
RT: 14.96 min Scan# 2188
Delta R.T. 0.00 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.1	27.1
125	13.2	9.8	14.8





#88

Benzo(k)fluoranthene

Concen: 7.017 ng/mL

RT: 14.98 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Instrument :

BNA_F

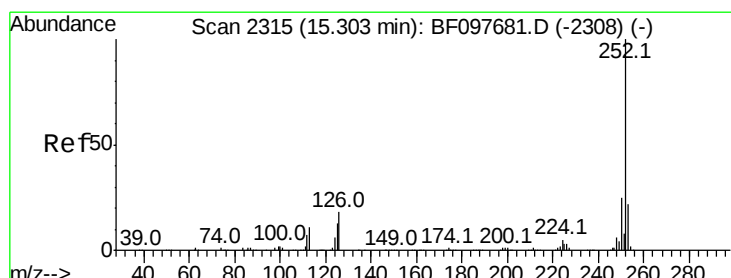
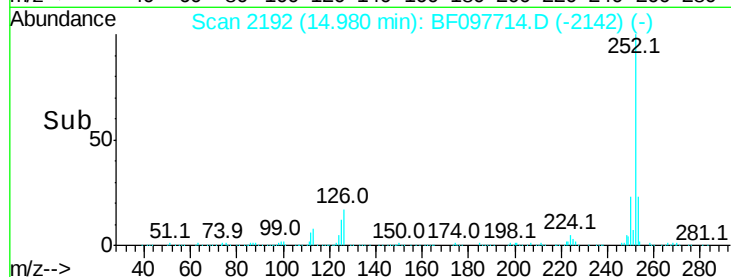
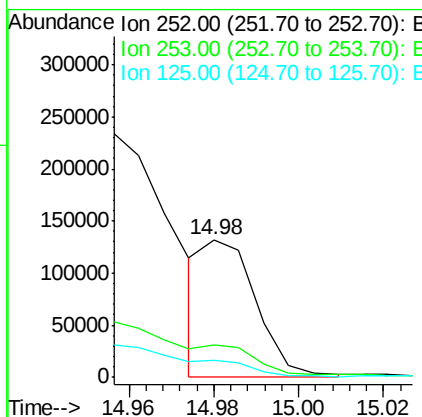
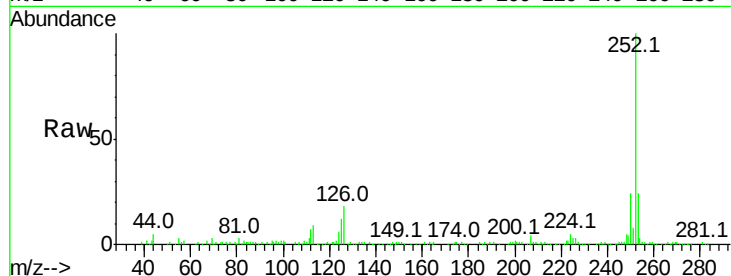
ClientSampleId :

SB-32-COMPDL

Tot Ion:	252	Resp:	114408
Ion Ratio		Lower	Upper
252	100		
253	23.5	18.4	27.6
125	12.2	13.1	19.7

Manual Integrations
APPROVED

Sohil
8/16/2017 6:49:36 PM



#89

Benzo(a)pyrene

Concen: 16.689 ng/mL

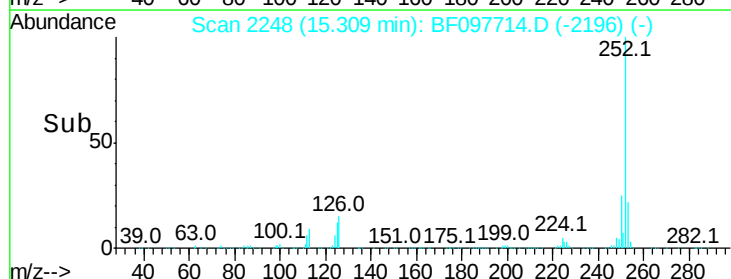
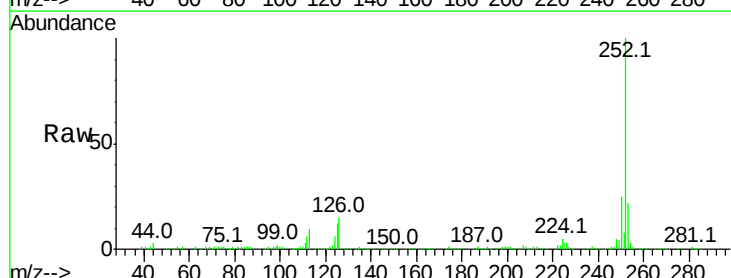
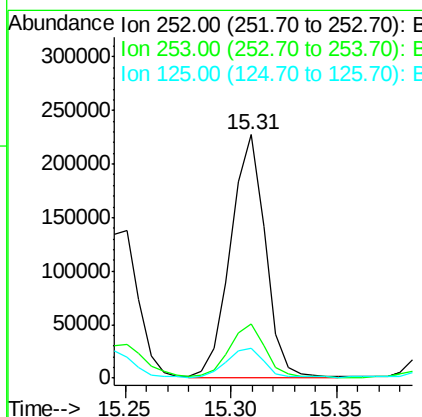
RT: 15.31 min Scan# 2248

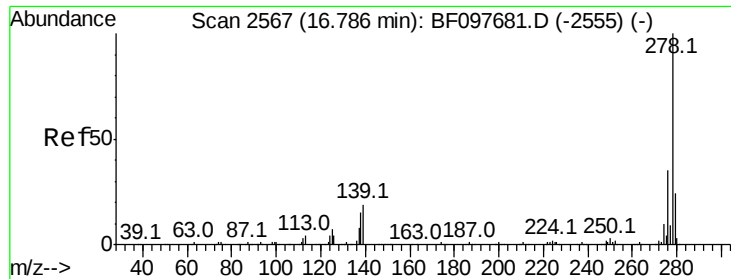
Delta R.T. 0.01 min

Lab File: BF097714.D

Acq: 16 Aug 2017 2:37

Tgt Ion:	252	Resp:	256394
Ion Ratio		Lower	Upper
252	100		
253	22.4	17.5	26.3
125	12.2	11.0	16.4





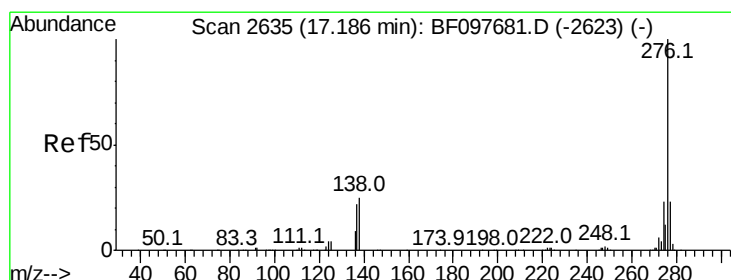
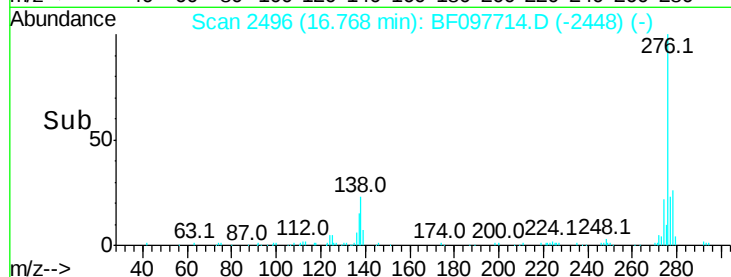
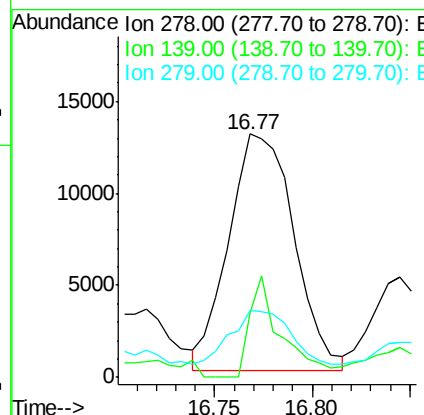
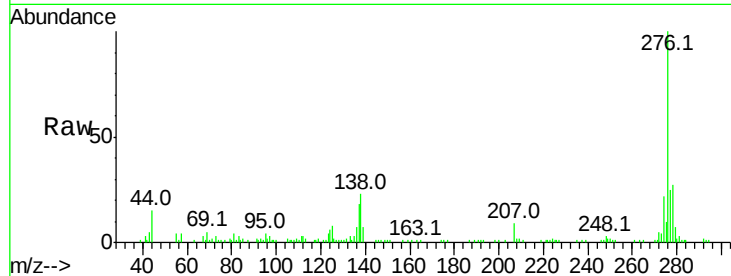
#90
Dibenzo(a,h)anthracene
Concen: 2.379 ng
RT: 16.77 min Scan# 2496
Delta R.T. -0.02 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Instrument :
BNA_F
ClientSampled :
SB-32-COMPDL

Tot Ion	Ratio	Lower	Upper
278	100		
139	26.3	16.6	24.8#
279	27.4	19.3	28.9

Manual Integrations
APPROVED

Sohil
8/16/2017 6:49:36 PM



#91
Benzo(g,h,i)perylene
Concen: 7.261 ng
RT: 17.18 min Scan# 2566
Delta R.T. -0.01 min
Lab File: BF097714.D
Acq: 16 Aug 2017 2:37

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.0	18.6	28.0
138	27.4	25.4	38.0

